

PATENT COOPERATION TREATY

7/16/05 REPORT

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JUN - 6 2005

From the INTERNATIONAL SEARCHING AUTHORITY

To:
VICTORIA A. SANDBERG
MUETING, RAASCH & GEBHARDT, P.A.
P.O. BOX 581415
MINNEAPOLIS, MN 55458-1415

PCT

COMMUNICATION IN CASES FOR WHICH
NO OTHER FORM IS APPLICABLE

Date of Mailing
(day/month/year)

02 JUN 2005

Applicant's or agent's file reference

290.0004 023 290-0004 0230

REPLY DUE

See paragraph 1 below

International application No.

PCT/US03/39950 ✓

International filing date

(day/month/year) 16 December 2003 (16.12.2003)

Applicant

PURDUE RESEARCH FOUNDATION

1. ☐ REPLY DUE within ____ months/days from the above date of mailing

☒ NO REPLY DUE

2. COMMUNICATION:

Because of a clerical error, the International Search Report (ISR) mailed by the ISA/US on 31 January 2005 listed the international application number as "PCT/US/0339950" instead of "PCT/US03/39950." In addition, the applicant's name was listed as "PURDUE RES. FOUNDATION" instead of "PURDUE RESEARCH FOUNDATION". The Corrected ISR attached hereto corrects these errors. Copies of references have been previously provided and do not accompany the Corrected ISR.

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Authorized officer

Carol Bidwell

CBidwell

Telephone No. 571-272-3279

Facsimile No. 703 305-3230

Form PCT/ISA/224 (January 1994)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
Victoria Sandberg
Mueting, Raasch and Bebbardt, PA
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Minneapolis, MN 55458-1415

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing
(day/month/year)

02 JUN 2005

Applicant's or agent's file reference
290.0004 023

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US03/39950

International filing date
(day/month/year)
16 December 2003 (16.12.2003)

Applicant
PURDUE RESEARCH FOUNDATION

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230

Authorized officer

Jane Zara

Telephone No. (703) 308-0196

PATENT COOPERATION TREATY

Corrected

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 290.0004 023	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US03/39950	International filing date (day/month/year) 16 December 2003 (16.12.2003)	(Earliest) Priority Date (day/month/year) 16 December 2002 (16.12.2002)
Applicant PURDUE RESEARCH FOUNDATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (See Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/39950

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; C12P 19/34; C12N 15/88; C07H 21/02; 21/04; A01N 43/04

US CL : 435/6, 91.1, 91.31, 458; 536/24.31, 23.1, 24.5; 514/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 91.1, 91.31, 458; 536/24.31, 23.1, 24.5; 514/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
West, Dialog**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ZHANG, C. et al., Use of circular permutation to assess six bulges and four loops of DNA-packaging pRNA of bacteriophage 29, RNA, Vol. 3, pages 315-323, 1997, esp. abstract on p. 315, fig. 1 on p. 316, text on p. 317, fig. 3 on p. 320.	1-27
Y	WADA, T. et al., Peptide ribonucleic acids (PRNA). 2. A novel strategy for active control of DNA recognition through borate ester formation, J. Am. Chem. Soc., Vol. 122, No. 29, 2000, pages 6900-6910, esp. text on pp. 6900-6901, and 6907.	1-27
Y	US 6,448,083 B1 (LAROCCA et al) 10 Sept. 2002 (esp. col. 7-11).	1-27

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

08 January 2005 (08.01.2005)

Date of mailing of the international search report

02 JUN 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
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